

### **ABSTRACT**

Disclosed is an image warping method and apparatus thereof, by which simplified scanline algorithm is implemented by a backward transformation method with minimized implementation costs and which enables to correct image distortion of a display device such as projection TV, projector, monitor, and the like due to optical or mechanical distortion. The present invention implements scanline algorithm as follows. After a position 'u' of the source image has been found using the value of 'x' of the target image, data of the position 'u' of the source image is mapped to a position 'x' of the target image. After a position 'v' of the source image has been found using the values of 'x' and 'y' of the target image, data of the position 'v' is brought to be mapped to a position 'y' of the target image.